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Anderson et al.

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[54] GROWTH PROMOTION

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[*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 4,690,951.

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Related U.S. Application Data

[63] Continuation of Ser. No. 37,789, Mar. 18, 1993, which is a continuation of Ser. No. 606,670, Oct. 31, 1990, abandoned, which is a division of Ser. No. 328,996, Mar. 27, 1989, Pat. No. 4,992,473, which is a division of Ser. No. 153,640, Feb. 8, 1988, Pat. No. 4,849,453, which is a division of Ser. No. 860,719, May 7, 1986, Pat. No. 4,734,437, which is a continuation of Ser. No. 628,002, Jul. 5, 1984, abandoned, which is a continuation of Ser. No. 462,587, Jan. 31, 1983, abandoned.

[51] Int. Cl.⁶ A61K 31/135; A61K 38/16; A61K 31/65; A61K 31/43

[52] U.S. Cl. 514/653; 514/8; 514/152; 514/192; 514/200; 514/460

[58] Field of Search 514/653, 192, 514/200, 460, 152, 8

[56] References Cited

U.S. PATENT DOCUMENTS

3,818,101	6/1974	Baile et al.	514/598
4,391,826	7/1983	Mills et al.	514/620
4,992,473	2/1991	Anderson et al.	514/653

FOREIGN PATENT DOCUMENTS

0 007 205	2/1979	European Pat. Off.
0 026 298	of 1981	European Pat. Off.
0 049 728	1/1981	European Pat. Off.
67/3994	7/1967	South Africa
79/3296	2/1981	South Africa
2028801	3/1980	United Kingdom

OTHER PUBLICATIONS

Dijk, et al., *Recueil* 92, pp. 1281-1297 (1973).*Fec. Proc.* 42 #3 (1983).*Fed. Proc.* 42 #4 (1983).

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[57] ABSTRACT

β -Phenethanolamines are effective in promoting growth and improving feed efficiency and leanness in animals.

8 Claims, No Drawings